•	452290	
•	Approved For Release 2002/09/03 : CIA-RDP69B00279R000300150039-5 OSA □ 4968 - 63	
••	05A = 4968-63 10 September 1963 STA	·Τ
	Dear Hazel:	
	Subject: FY 1964 Spares, Revised Estimate FL-4004	
STAT	Reference:, dated 22 June 1963	
	Enclosed is our revised estimate of the spares needed to support the MH-330, MH-357, MH-330 Signal Conditioner and Data Monitor operations for the fiscal year 1964.	
STATINTL	We have completed a review of our MH-330 spares reflecting a reduction in our needs due to the availability of 2 complete systems from our FL-4001 contract. This had a marked effect in reducing our projected MH-330 costs (Exhibit III) k	
STAT	The requirements for the MH-357 segment of the program increased slightly, as we completely re-estimated the program. The quantities remain the same as contained within our initial quote, with the exception of one small item, Filter D907254, which we have eliminated.	
<i>()</i>	Since our initial estimate, we have established firm prices and quantities for the spare parts needed to support the repair of both our inertial components (DGG8001B-3 gyro and DGG116A3 accelerometer) and the Kearfott gyros (GG8050A1). For your information, these spares will be retained at Minneapolis for the MH units and at Little Falls, N. J. for the Kearfott units.	Т.
·	Also for your information, there is no allowance for the cost of procuring the sixteen navigation panel retrofit kits as contained within engineering change order #1; and no consideration has been made for anticipated changes within the coupler which we discussed with you on 6 September 1963.	
	Very truly yours,	
	STATINTL	-
•	FRC:FHH:rc Enclosures: Exhibits I through VIII	
STATINTL		
····································	Approved For Release 2002/09/03 : CIA-RDP69B00279R000300150039-5	

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FY 64 SPARES - 330/357

Reference	<u>Description</u>	
Exhibit I	H 330 Cost Summary	
Exhibit	H 357 Cost Summary	
Exhibit III	H 330 Task Analysis (2 Pages)	
Exhibit IV	H 330 Parts List (7 Pages)	
Exhibit V	H 330/357 Inertial Component Cost Detail (Honeywell Gyros and Accelerome	eters)
Exhibit VI	H 330 Inertial Component Cost Detail (Kearfott Gyros)	
Exhibit VII	H 357 Task Analysis	
Exhibit VIII	H 357 Parts List (2 Pages)	

Next 3 Page(s) In Document Exempt

Nomenclature	Part Number	Quantity
<u>Inertial Components - Sub-Assemblies</u>		
Gyro (M-H) (Parts for 16) (Projected Parts to Support		
Case	945027	4
Gimbal	949112-2	4
Torquer	478806-1	5
Header	949111-1	L ļ.
Bellows	478691	2
Cadle	950716-1	5
Thrust Jewell	937478	2
Ring Jewell	937479	1
Magnet Assembly	945029	4
Pivot	941800TAB	ì
Top Dust Cover	478960	6
Dust Cover	944555 T AB	4
Seal	472076	8
Seal	478748	9
"O" Ring	449209-1	8
"O" Ring	478752	
	434758	o o
Resistor	42401 <i>7</i> -24	2
Retainer Ring	473118	9 9 3 8
Sleeve	479061	10
N.P.		
Lube	6260-3	1 <i>L</i> ;
948660 Clip Assembly Flex Leads	6148	14
Shield	479814	8
Spacer Ring	478910	3
Stop Pin	478913	6
Spacer	940903	3
Accelerometer (M-H) (Parts for 16) (Projected Parts t	o Support Repair	of 16 Accelerometers)
Magnet Assembly	478603	2
Case	310044	2
End Pla t e	464238-4	2
Gimbal & Rotor	479986	6
Unisyn	47391	5
Pl. Holder less Pivot	941800-1	2
Thrust Jewell	937478	8
Ring	937479	1
Int. Sensor	475715-1	2
Bellows Assembly	475329	1
"O" Ring	449209-1	10
11011 Ring	478534	10
Seal Shim	472076-2	10
Disk	478536	10
	939768	10
Disk	472215	10
Bellows Plug	476257	10
Stop Pin	478531	11
Heater Cover		· 1 ₄
Baffle Plate	310000	-r

Nomenclature Accelerometer (M-H) Cont'd.	<u>Part Number</u>	Quantity
Shield	464439	2
Resistor	434758TAB	8
N.P.	477781	9
Flex Lead Mall	Spec 6148	1 4
Lube	MS 7280	1 L;
Gyros (Kearfott) (Projected Parts to Support	Repair of Gyros)	
Motor Float (Assembly)		8
Motor (Assembly		$\mathcal{L}_{rac{1}{2}}$
Parts - Gyros:	24	
Connector	26-20P	10
Cover-Stator End	C315003582	10
Pin-Str. Head	C319023504	10
Holder-Exh. Tube	C392003529	14
Exhausting Tube	C348001000	14
Terminal, Feed Thru	4AS30WSSS	170
Pin, Straight Head	C319023505	14
Heating Element	C515003521	9
Sensing Element	C200003900 C311083505	9 18
Bearing Jewell Nut, Float Wt.	C318003537	11
Nut, Float Wt.	C318003540	11
Nut, Float Wt.	C318003542	11
Pigtail	C539013505	90 Feet
Eyelet Metallic	C353003500	360
Pivot, Torquer End	c340063509	9
Pivot, Bellows End	c340063508	9
Bellows	C391003509	9
Cover, Bellows End	C315003584	9
Packing Preform	C356019548	54
Packing Preform	C 356019549	27
Packing Preform	C356019543	27
Packing Preform	C356011007	27
Plate Peregnation	c360003530	18
Plate Identification	c360603195	18
Damping Fluid		4.5 Lbs.
Balancing Fluid		.9 L bs.
Rotor Pickoff & Torquer	c200003667	2
<u> Parts - Float:</u>	_	
Float M/S	c 200003659	7
Washer	C312003540	12
Washer	C312003541	12
Washer	C312003542	6
Washer	C312003543	6
Washer	C312003544	6
Washer	C312003545	12
Washer	c 312003546	12

Nomenclature	Part Number	Quantity
Gyros (Kearfott) Continued		
Parts - Float Cont'd.:		
Term, Feed Thru	C540020097	18
Pin Ground	c319003526	.9
Insulator, Header	C511003521	15
Insert, Float	C318023521	20
Tube, Exhaust	c348003506	18
<u>Parts - Motor:</u>		
Bearing, Ball	C311001001	27
Insulator, Station End	C 5110 7 1006	27
Wire, Hook-up	C101230006	18 Feet
Wire, Hook-up	C101730111	18 Feet
Wire, Hook-up	C101730222	18 Feet
Wedge	C527001001	28 0
Wire, Magnet	C10100507 0	18 0 z.
Flywheel & Support Set	C200013687	10
Support Shaft	¢333003531	10
End Bell	C554003519	10
Rotor	C551003511	10
Screw	C320003069	72
Washer	C312003567	5
Washer	C312003569	7
Washer	C312003571	5
Washer	C312003573	7
Washer	C312003577	7 5 7 7
Washer	C312003581	, 5
Shaft & Bearing	C200003690	10
	0_0000,000	. •
Sub-Assemblies, Boards, Modules		
Signal Conditioner & Data Monitor Sub-Assembly		
Terminal Board Assembly	D918885-1	1
Driver Amplifier	D918718-1	2
Step Motor	D907598-4	2
Encoder BCD, 5 Digit	D91 7 517-3	2
Encoder BCD, 4 Digit	D917517-2	2
Encoder BCD, 4 Digit	D917517-4	1
Encoder BCD, 3 Digit	D917517-1	4
Terminal Board Assembly, Power Supply	D918730	1
Logic Pkg., Lead-Lag Sel	D917836-1	1
Flip Flop	D918498-1	20
Driver	D918505	10
N and Gate	D918501	2 2
Flip Flop	D918498-2	- 5
Shift Register	D918502-1	5
Shift Register Driver	D918503	4
One Shot	D918504	5
Transformer, Power	D918466-1	ĺ
Transformer, Power	D918467-1	Ì
·	D917690-1	1
Relay Control	1-050/160	i .

EXHIBIT IV

FY 64 SPARES H 330

Nomenclature	<u>Part Number</u>	<u>Quantity</u>
Signal Conditioner & Data Monitor Sub-Assembly Continu	ed	_
Servo Amplifier	D917482	3
Diode, Zener	IN 1483	2
Diode, Zener	D905279-1	2
	IN 3027A	2
Diode, Zener		2
Diode, Zener	D905222-8	
Diode, Zener	IN 756A	2
Diode, Silicon	IN 645	12
Diode, Silicon	IN 3206	10
	D911080-9	2
Time Delay Relay	-	2
Latching Relay	D915520-2	
Std. DPST Relay	D 904857-10	Political
Std. DPST Relay	D904857-9	1
Readout, Digtal	AD917767-1	1
	AD918504-1	2
Logic Module, SS		4
Logic Module, N	AD918501-1	
Logic Module, FF	AD918498-1]
Driver, Lamp	AD918718-1	14
Diode	IN 1483	2
	IN 645	12
Diode	=	2
Diode	IN 3027B	
Diode	IN 756A	2
Diode	AD905222-13	2
	432255-3	1
Relay	AD904857-10	1
Relay		i
Transistor	2N492	i
Power Supply		
Voltage Regulator	D918948	2
Vollage Regulator	05.05.10	
Repeater Sub-Assembly		
Module Assembly	90 7848	1
Module Assembly	20,000	
Computer Modules		•
Comp. Assembly Type #1	0 919103-1	6
Comp. Assembly Type #2	D 919136-1	1
	D919137-1	9
Comp. Assembly Type #151	D919138-1	2
Comp. Assembly Type #150		
Comp. Assembly Type #4	D919350-1	ŀ
Comp. Assembly Type #22	D919368-1	i
Comp. Assembly Type #29	D 9193 7 5-1	1
Comp. Assembly Type #31	D919377-1	3
	D919387-1	2
Comp. Assembly Type #41		1
Comp. Assembly Type #42	D919388-1	I 3
Comp. Assembly Type #43	D919390-1	I
Comp. Assembly Type #45	D 9193 92- 1	1
Comp. Assembly Type #53	D919401-1	2
	D919402-1	1
Comp. Assembly Type #54	リン・フサロム・・・	•

FY 64 SPARES H 330

<u>Nomenclature</u>	Part Number	<u>Quantity</u>
Computer Modules Continued Comp. Assembly Type #55 Comp. Assembly Type #56 Comp. Assembly Type #57 Comp. Assembly Type #61 Comp. Assembly Type #69 Comp. Assembly Type #87 Comp. Assembly Type #94 Comp. Assembly Type #95 Comp. Assembly Type #116 Comp. Assembly Type #120	D919403-1 D919404-1 D919405-1 D919409-1 D919417-1 D919442-1 D919443-1 D919464-1	1 3 1 2 2 1 2 1 2
•		
Board #1 Board #2 Board #3 Board #4 Board #5 Board #6 Board #7 Board #8 Board #9 Board #10 Board #11 Board #12 Board #13 Board #14 Board #15 Board #15 Board #17	D919977 D919978 D919979 D919980 D919981 D919982 D919983 D919984 D919985 D919986 D919987 D919988 D919989 D919990 D919991	1 1 5 7 2 5 1 1 5 1 4 2 1 1
Memory Drum Sub-Assemblies Recording Head Assembly Recording Head Assembly Recording Head Assembly Recording Head Assembly	D910214-18 D915649 D909723-19 D911596-20	¹ 4 2 2 2
Coupler Sub-Assemblies Boards: Gyro Torquing Current Gate Accel. Rebal. Logic & Lvl. Disc Accel. Rebal. Current Gate Signal Gen. Demod. D.C. Amplifier T P G 400 cps Demod Driver Summing Network & Oven Resolver & Filter Assembly	D905269-1 D905156-1 D905405 D917983-1 D915964 D914481 D904803 D910546 D918146-1	2 3 1 1 4 1 1 3

Nomenclature Coupler Sub-Assemblies Continued	Part Number	Quantity
Modules:		
Diff. Amplifier	D913557	2
Diff. Amplifier DC Input	D913579	1
High Frequency Module	D910368	6
W/M A2	D907093	2
W/M A3	D907106	2
W/M A4	D907117	2
W/M A1	D915965	2
Chopper Stab Amp 1st Stage	D913502	1
Chopper Stab Amp 2nd Stage	D913503	1
Chopper Stab Amp 3rd Stage	D913504	1
Chopper Stab Amp 4th Stage	D913505	1
Demod. Bridge	D913097	1 .
H.F. Amp	D913489	1
Flip Flop	D 906707	6
7.2 KC Input	D906747	1
28.8 KC Input	D914381	1
400 cps Input	D914733	2
Blocking Oscillator	D913129	14
Blocking Oscillator	D913656	14
Blocking Oscillator	D913669	2
Assembly Gate Rect.	D908860	2
Demod. Assembly	D910474	2
Welded Comp. Assembly	D910466	2
Transformer	D905250	3
Transformer	D905465	2
Transformer	D905514	2
Transformer	D905423	2
Transformer	D905814	2
Output XF MR Assembly 400	D905256	2
Diff. Amp AC Input	D913576	2
Transformer	D905422-1	1
Radio Noise Filter	D918143-1	1
Platform Electronics Boards & Sub-Assemblies		
<u>Boards:</u>		_
Gimbal Control Amplifier	D904640-1	1
Gimbal Control Amplifier	D904640-4	1
Gimbal Control Amplifier	D 904640-5	2
Sub-Assemblies:		
Transformer	D905093	2
Transformer	D905013	2
Transformer	D905015	2
Transformer	D905017	2

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Nomenclature	<u> Part Number</u>	<u>Quantity</u>
Platform Sub-Assemblies	2007053	10
Temperature Control Amplifier	D907953	. 12
TB-1	D907977-1	2
TB-2	D90 7 977-2	2
TB-4	D908183-2	2
TB-5	D908133	2
TB-6	D908210	2
TB- 7	D 917473-1	2
Pre Amplifier Board Assembly	D904756-3	2
Bracket & XF MR Assembly	D908733	2
Triple Pre-Amp	D908151	3

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EXHIBIT VIII

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Nomenclature Platform - Sub-Assemblies	Part Number	Quantity
Temperature Control Amplifier	D907953	3
Triple Pre-Amp Assembly	D908151)
The state of the s	0300131	1
Coupler Boards & Modules		
Boards:		
Gyro Torquing & Current Supply	D913488	1
Gyro Torq. Logic	D905069	1
Gyro Torq. Current Gate	D905269	2
Accel. Rebal. Current Supply	D 910019	2
Accel. Rebal. Logic & Lvl. Disc	D905156-1	2
Accel. Rebal. Logic & CFF	D906174	1
Accel. Rebal. Logic PP & Disc	D906176	1
Accel. Rebal. Current Gate	D905405	3
Signal Gen. Demod.	D917983-1	ī
Signal Gen. Amplifier	D905457	1
14.4 KC Demod Driver	D905334	1
D.C. Amplifier	D915964	2
Freq. Divider & Ring Ctr.	D912219	ī
3 Ø, 400 cps Power Amplifier	D904796	i
VORPA	D915525	i
POSCA	D905686-1	i
TPG	D914481	i
Voltage Ref. Iso. Amp	D904646	i
Voltage Ref. Supply Regulator	D904642	i
Resolver & Filter Assembly	D918146-1	i
Summing Network & Oven	D919077-1	i
Modules:	25.5017	•
Radio Noise Filter	D918143-1	1 .
400 cps Demod Driver	D904803	i
Transformer	D905422-1	i
Gate Power Rect. Assembly	D908860	i.
Filter	D910291	1
Blocking Osc., TPG	D913669	i
Flip Flop	D906747	1
Blocking Osc., TPG	D913656	i
Flip Flop	D914381	1
Flip Flop	D913129	I
Flip Flop	D914733	1
Flip Flop	D906707]
High Freq. Amp Assembly	D910368	1
5. Trod. Turb 1100 Clin I y	ססנטועע	1

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Nomenclature	<u>Part Number</u>	Q uantity
Platform Electronics Boards		
Gimbal Control Amplifier	D904640-1	ì
Gimbal Control Amplifier	D904640-2	1
Gimbal Control Amplifier	D904640-4	1
+ 40 V DC Rect. & Reg. P.S.	D904800	1
- 35 V DC Reg. P.S.	D904801	ì
+ 35 V DC Reg. P.S.	D904802	1